# EXHIBIT A

### Adams, Seth

Volume 1 - 09/11/2020

# Summary Proceeding with Highlighted Clips Printed 05/23/2021 01:30AM CDT

#### CONFIDENTIAL

P counter-counters
(Runtime - 00h:00m:01s)

Defense Counters
(Runtime - 01h:34m:27s)

Plaintiffs Designation
(Runtime - 00h:20m:00s)

Plaintiffs Objections
(Runtime - 01h:26m:15s)

#### Page 00006

Plaintiffs	Objections 402/403 - relevance, wastes time:
01:	SEPTEMBER 11, 2020
02:	00
03:	BE IT REMEMBERED that set on Friday, the 11th
04:	day of September, 2020, commencing at the hour of 8:01
05:	a.m., taken remotely before me, Cherree P. Peterson,
06:	RPR, CRR, CSR No. 11108, a Certified Shorthand Reporter,
07:	personally appeared
08:	SETH ADAMS,
09:	having been called as a witness by the plaintiffs, who
10:	having been duly sworn by me to tell the truth, the
11:	whole truth, and nothing but the truth, was thereupon
12:	examined and testified as hereinafter set forth.
13:	000
14:	THE VIDEOGRAPHER: Good morning. My name is
15:	Rob Chang. I am a videographer associated with Barkley
16:	Court Reporters located at 10350 Santa Monica Boulevard,
17:	Suite 200, Los Angeles, California 90025.
18:	The date is September 11th, 2020. The time is
19:	8:01 a.m.
20:	This deposition is taking place via remote
21:	method in regards Pacific Fraternity (sic) Center
22:	litigation, case number 3:18-cv-0186-JSC (sic). This is
23:	the videoed deposition of Seth Adams.

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Plaintiffs	Objections 402/403 - relevance, wastes time:
12:	Q. Good morning, Mr. Adams. As you heard, my name
13:	is Amy Zeman, and I'm an attorney representing the
14:	plaintiffs in this action. I'll be asking you some
15:	questions today. Do you have you been deposed
16:	before?

17: A. No, I have not.

#### Page 00010

06:	Q. Mr. Adams, what's the highest educational
07:	degree that you have?
08:	A. A Bachelor's.
09:	Q. Okay. In what subject?
10:	A. Industrial engineering.
11:	Q. Okay. Is that a Bachelor's of Science?
12:	A. Yes.
13:	Q. And when did you receive that?
14:	A. December 2005.
15:	Q. And did you focus in any particular area of
16:	engineering for that degree?
17:	A. Just it's an industrial engineering. So
18:	just a general focus in industrial engineering.
19:	Q. Okay. What does industrial engineering mean?
20:	A. It's more process and business based. So
21:	there's a lot more accounting and economics more so than
22:	drafting and design like in mechanical.

Plaintiffs C	Objections 402/403 - relevance, wastes time:
12:	Q. Do you hold any certification related to Lean
13:	Six Sigma?
14:	A. I have a certificate well, I've completed a
15:	certification class. I don't have the certificate in
16:	Six Sigma.
17:	Q. What is that? What is Six Sigma?
18:	A. Basically it's looking at your manufacturing
19:	processes and the business as a whole basically driving
20:	out any type of inefficiencies, waste, and then trying
21:	to get your internal quality to a Six Sigma. That's

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22:	where the terminology comes from. So if you were to
23:	look at a bell curve, it would basically be 99.999ish
24:	percent quality.

#### Page 00012

Page 00012	
Plaintiffs	Objections 402/403 - relevance, wastes time:
08:	Q. Okay. What organization did you take that
09:	class through?
10:	A. That was through Villanova University.
11:	Q. Do you hold any other certifications related to
12:	your profession?
13:	A. No.
14:	Q. What was the first professional position you
15:	held as an industrial engineer?
16:	A. A manufacturing engineer.
17:	Q. Where was that?
18:	A. That was here at Chart.
19:	Q. Is it accurate to say your first employment
20:	after receiving your industrial engineering degree was
21:	as a manufacturing engineer with Chart?
22:	A. Yes.
23:	Q. Okay. And when did you begin in that position
24:	at Chart?
25:	A. Around Mayish of 2005.

Plaintiffs	Objections 402/403 - relevance, wastes time:
01:	Q. And at what location did you begin working at
02:	in May of 2005?
03:	A. That was here in Ball Ground, Georgia.
04:	Q. And what was the what were your
05:	responsibilities as a manufacturing engineer?
06:	A. Primarily looking at the process. We
07:	reviewing assembly operations for liquid oxygen dewars

08:	just trying to decide if there were opportunities to
09:	improve or document what was going on, looking at
10:	fixture design and also floor layouts just for floor
11:	space utilization.
12:	Q. Does Chart have a single facility in Ball
13:	Ground, Georgia?
14:	A. No.
15:	Q. How many facilities do they have in Ball
16:	Ground?
17:	A. We currently have two facilities.
18:	Q. What are the two facilities?
19:	A. One is 1300 Airport Drive and the other is 3055
20:	Torrington Drive.
21:	Q. And what type of products are handled at 1300
22:	Airport Drive?
23:	A. 1300 is what we call our packaged gas. So CO2
24:	tanks, nitrogen, argon, basically smaller bulk tanks as
25:	we call them.

#### (continued page 00014)

0014	
01:	Q. And what products are handled at 3055
02:	Torrington?
03:	A. Those would be yeah, Torrington. Sorry.
04:	Those are the freezers. The cryogenic freezers.
05:	Q. And what is a cryogenic freezer?
06:	A. It's just a large tank with an opening for
07:	customers to store whatever product needs to be stored
08:	at a cold temperature but not actually immersed into the
09:	liquid itself.
10:	Q. Are the MVE 800 series tanks cryogenic
11:	freezers?

12:	Α.	Yes.
13:	Q.	And are the MVE 800 series tanks produced at
14:	the 3055	5 Torrington location?
15:	Α.	Yes.
16:	Q.	Are they produced anywhere else?
17:	Α.	No.
18:	Q.	Which of the two facilities did you start
19:	working	at in May of 2005?
20:	Α.	That was the 1300 facility.
21:	Q.	All right. And are you still a manufacturing
22:	engineer	r?
23:	Α.	No.
24:	Q.	When did you cease to have that role?
25:	Α.	In 2010 I took a production manager role.

#### Page 00015

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Plaintiffs	Objecti	ions 402/403 - relevance, wastes time:
01:	Q.	While you were a manufacturing engineer at
02:	Chart, v	were you located at the 1300 Airport Road
03:	facility	y for the duration?
04:	Α.	Yes.
05:	Q.	Did you work with the cryogenic freezers at any
06:	time as	a manufacturing engineer?
07:	Α.	No.

10:	What was the next position you held at Chart?
11:	A. I was a process engineering and CI manager.
12:	Q. Is that essentially two positions that you held
13:	at once or a single position?
14:	A. Basically it's two positions kind of rolled
15:	into one.
16:	Q. Okay. What is a process engineer?

17:	A. So we look at the process, again, sort of what
18:	I was doing as a manufacturing engineer just trying to
19:	streamline the process, make our throughput more
20:	efficient, you know, reduce delivery times and improve
21:	the process through fixturing or ordering new equipment
22:	or whatever the necessity is to keep production going.
23:	Q. And what does the CI manager do?
24:	A. So the CI is what we call continuous
25:	improvement. So we looked at leveraging newer

(continu	ued page 00016)
0016	
01:	technologies. Me personally, I was involved in looking
02:	at other facilities as well and standardizing processes
03:	between multiple facilities.
Plaintif	ffs Objections 402/403 - relevance, wastes time:
04:	Q. And were you in working in Ball Ground,
05:	Georgia, as a process engineer and CI manager?
06:	A. Yes.
07:	Q. Which of the two facilities were you at?
08:	A. Primarily at that time I was in a facility that
09:	Chart no longer owns. It's the it was the 2205
10:	building. It was CAIRE Respiratory.
11:	Q. How long have the has cryogenic freezer
12:	production occurred at the 3055 location?
13:	A. Approximately two and a half years maybe.
14:	Q. Where did that production occur prior to that?
15:	A. That was in the 2205 building.
16:	Q. And so did the cryogenic freezer production
17:	move from the 2205 location to the 3055 location in
18:	approximately early 2018?
19:	A. It would have been the end of 2016.

Q. All right. Do you know what month you started

20:

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21:	as a process engineer and	CI manager?
22:	A. I don't recall th	at.
23:	Q. Do you recall wha	t time of year roughly?
24:	A. Winter.	
25:	Q. Okay. And when -	- are you still a process

(continued page 00017)
0017
01: engineer and CI manager at Chart?
02: A. No.
03: Q. When did you last hold the position of process
04: engineer and CI manager?
05: A. February of 2019.
Plaintiffs Objections 402/403 - relevance, wastes time:
06: Q. And from 2010 through February of 2019 you were

#### 07: primarily working at the 2205 location? 08: Α. Correct. 09: Did you switch to the 3055 location in late Q. 2016? 10: A. I did not. 11: 12: Q. Where did you work from the end of 2016 until 13: February of 2019? 14: I was in the 2205 building. 15: Oh, I see. And does -- did you say Chart no longer has the 2205 location? 16: 17: Α. Correct. When did they cease to control that facility? 18: Q. In 2018. 19: 20: And where did you work from that time until 21: February 2019? That would be the 3055 building. 22: 23: So you switched to the 3055 location sometime Q. 24: in 2018? 25: Yeah. The fall of 2018 I came up to the 3055

#### (continued page 00018)

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0018
01: building.
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#### Page 00018

24: Q.	What were your general responsibilities as a
25: proces	ss engineer and CI manager?

#### (continued page 00019)

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0019	
01:	A. Day to day basically monitoring multiple
02:	projects. We had a lot of different products that were
03:	being moved from various facilities, again kind of
04:	project management tasks, and then making sure that my
05:	own team of engineers were executing those tasks.
06:	Q. Were your was the members of your team of
07:	engineers, were those mechanical engineers?
08:	A. Yes.
09:	Q. Were they were there any other types of
10:	engineers on your team?
11:	A. No.
12:	Q. And were the mechanical engineers working
13:	directly with the products?
14:	A. Yes.

#### Page 00019

22:	Q. And what position did you hold after process
23:	engineer and CI manager?
24:	A. That's operations manager.
25:	Q. Is that your current position?

#### (continued page 00020)

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0020
01: A. Yes.

Plaintiffs Objections 402/403 - relevance, wastes time:
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02: Q. And what are your responsibilities as an
03: operations manager?
04: A. Basically to monitor daily production, staffing
05: requirements, scheduling, ensuring that we're hitting
06: particular metrics such as on-time delivery, efficiency,
07: and in watching to keep our costs, our operating income
08: at an optimal level.
09: Q. Do you oversee one of the two facilities in
10: Ball Ground?
11: A. Yes. Just the 3055.
12: Q. And do you oversee the entire facility?
13: A. Yes.
14: Q. Are you responsible for the production of
15: cryogenic freezers?
16: A. Yes.
Plaintiffs Objections 402/403 - relevance, wastes time:
17: Q. What does that mean to you?
2. What does that mean to you.
18: A. I'm responsible to ensure that they are built
19: in a timely manner with the highest level of quality.
20: Q. How do you ensure they have the highest level
21: of quality?
22: A. So we have various internal quality checkpoints
23: that the freezers have to pass through and be accepted.
Q. Do you monitor those checkpoints?
25: A. Yes, we do.

#### (continued page 00021)

0021	
01:	Q. Do you personally?
02:	A. I get a report daily telling me the
03:	performance.
04:	Q. Does that report indicate performance on
05:	particular factors?
06:	A. What kind of factor?

07: Q. I'll ask a different way. Could you describe	
08: what the daily report looks like?	
09: A. Yeah. It has basically it's based on NCRs	
10: and nonconforming reports. So if a piece of material	
11: needs to get scrapped, that would go on our NC NCR	
12: log. That would show up on that report.	
13: And then we also have a helium leak detection	
14: check that would show up on the report if it had an	
15: issue at any point during helium leak detection.	
16: And then the final checkpoint is a physical QC	
17: inspection which is more of a visual inspection. And	
18: there are some slight measurements taken like on a	
19: Brooks Automation, for instance.	
20: Q. Does the 3055 facility produce anything other	
21: than cryogenic freezers?	
22: A. No.	
23: Q. What are some of the features that are looked	
24: for during the physical QC inspection?	
25: A. Those would be visual defects such as any	

### (continued page 00022)

0022	
01:	blemishes on the outside of the freezer, a dent or a
02:	scratch, any alignment of any of the plumbing features
03:	that may be mounted on the top or in the back cabinetry
04:	section, labeling, even into crating just to ensure that
05:	all the spare components went into the crate as
06:	expected.
07:	Q. What is the helium leak detection that's done
08:	during the QC process?
09:	A. So what the helium leak detection does is
10:	verify that all of the weld joints are leak tight, and

11:	basically that ensures that we're going to have a
12:	sufficient vacuum.
13:	Q. Is that done on every cryogenic freezer that
14:	comes out of that facility?
15:	A. Yes. 100 percent.
16:	Q. At what stage of production does the helium
17:	test occur?
18:	A. What we would call a semi-final stage.
19:	Q. Is the helium introduced into the vacuum space
20:	of the tank?
21:	A. No. The vacuum is pulled on the vacuum space
22:	of the tank and helium is introduced around the outside
23:	of the vessel as well as into the interior where, like,
24:	the customer would be storing product.
25:	Q. And how do you go about searching for a leak?

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0023	
01:	A. The basics are they use the equipment to pull a
02:	soft vacuum. And then they the operator will use a
03:	tiny hose spraying the helium around every single weld
04:	joint or anywhere we think there could possibly be a
05:	leak, and then the detector will alarm if it senses any
06:	helium coming through.
07:	Q. Where is the detector located during the test?
08:	A. It's attached to a manifold that's physically
09:	pulling the soft vacuum on the freezer.
10:	Q. Is the vacuum pulled again during the process
11:	to finalize the tank production?
12:	A. Yes.
13:	Q. Is it fair to say the detector is essentially
14:	in the vacuum space?

15:	A. I don't know.
16:	Q. Okay. Can you walk me through the general
17:	order of production for a cryogenic freezer?
18:	A. Sure. First we take in raw sheet. We'll roll
19:	that sheet into cylindrical shapes, place what we call a
20:	long seam weld on that. It is then introduced into head
21:	fabrication. There's a top head and bottom head both
22:	for an inner and an outer. We will make the inner, wrap
23:	that with insulation and drop that into an outer vessel.
24:	Upon that time we'll then put a outer top head on, and
25:	that sort of basically built completes the dewar. At

#### (continued page 00024)

0024	
01:	that point that's welded into location. Then we'll send
02:	it through what we call our polishing operation. That's
03:	what puts the pretty finish on it. Then we'll go into
04:	the helium leak detection. From there we'll do any
05:	final welding that needs to be done external, like a
06:	bracket or a handle that could not go through the
07:	polishing process. After that it will go into our
08:	evacuation, the vacuum process.
09:	Once it comes out of evacuation, they'll go
10:	ahead and start plumbing the unit, attaching the
11:	electronics that need to go on it, place any labeling.
12:	There's one model that gets a different caster. And
13:	then from that point we go through the QC inspection
14:	again visually. And then it goes into the crating. And
15:	once it's crated, it goes into the warehouse.
16:	Q. What do you mean by plumbing the unit?
17:	A. So there's external plumbing that is used where
18:	the customer will actually fill the unit with liquid

19:	nitrogen. So there's some copper tubes, fittings, and
20:	whatnot that actually connect into the freezer, if you
21:	will.
22:	Q. And what electronics are attached to the tanks?
23:	A. There is a few valves and a controller. The
24:	valves basically open and close and are driven by the
25:	controller.

#### (continued page 00025)

0025	
01:	Q. Does Chart equip tanks with a TEC 3000
02:	controller?
03:	A. Some models, yes.
04:	Q. Is that TEC 3000 controller still used today at
05:	Chart?
06:	A. Yes.
07:	Q. Is there a touch screen version of the
08:	controller?
09:	A. Yes.
10:	Q. What's the name of that model?
11:	A. Touch screen.
12:	Q. Okay. Is it sometimes referred to as the TS
13:	controller?
14:	A. Yes.

Plaintiffs Objections 402/403 - relevance, prejudicial (see Chart's Response to RFA Set 5 Nos. 1 and 2 - TS kit was available as of 1/1/18):

Defense Counters Contingent on whether evidence about Touch Screen

controller adm	issible as it was not yet available to Chart customers
in March 2018:	
15:	O. How long has the touch screen controller been
16: on	the market?
17:	A. I don't know.
	Q. I'm sorry. I didn't hear your answer.
19:	A. I don't know.
20:	2. Do you have an approximation?
21:	A. No, I don't.
22:	Q. But some tank models are currently equipped

23: with the touch screen controller?

24: A. Yes.

Defense Objections Objection -- Touch Screen controller irrelevant to the case; not yet available for Chart customers as of March 2018:

25: Q. Are there annular lines including on the MVE

(00	ontinued	page 0	0026)
	0026		
01:		800 ser	ies tanks?
02:		Α.	Yes.
03:		Q.	When are those annular lines added to the tank
04:		within	the production process you outlined?
05:		Α.	Right after it's part of the inner vessel
06:		fabrica	tion.
	aintiffs	Object.	ions 402/403 - relevance, wastes time:
07:		Q.	And are the annular lines attached to the inner
08:		vessel?	
09:		A.	Yes.
10:		Q.	Are they attached via a fitting?
11:		A.	No.
12:		Q.	What are they attached via?
13:		A.	With a weld.
14:		Q.	What is welded to attach the annular lines to
15:		the inn	er vessel?
16:		A.	I'm sorry. Can you repeat that?
17:		Q.	What is welded to attach the annular lines to
18:		the inn	er vessel?
19:		A.	There is a fitting that gets welded to the
20:		inner s	hell.
21:		Q.	Is that fitting located at the bottom of the
22:		annular	lines?
23:		A.	Yes.
24:		Q.	And there's a sensor line and a fill line;
25:		correct	?

### (continued page 00027)

0027	
01:	A. I believe so, yes.
Plaintiffs	Objections 402/403 - relevance, wastes time:
02:	Q. And are those the only two annular lines on the
03:	MVE 800 series?
04:	A. I'm not sure, but I believe so.
05:	Q. Okay. For the fill line, is the fitting that
06:	attaches that line to the inner vessel located at the
07:	bottom of the fill line?
08:	A. Yes.
09:	Q. And at what point in the production is the
10:	fitting attached to the fill line?
11:	A. It would be during the inner vessel fab that's
12:	kind of all done at the same time.
13:	Q. What's the order of production though as far as
14:	the fitting being attached to the tube and then the
15:	fitting being attached to the inner vessel?
16:	A. The fitting would be attached to the tube
17:	first, then the fitting and tube would be attached to
18:	the vessel.
19:	Q. And is there a single weld that attaches the
20:	fitting to the inner vessel?
21:	A. Yes.
22:	Q. Is there anything else that attaches the
23:	fitting to the inner vessel?
24:	A. No.
25:	Q. Is it important that that fitting remain

#### (continued page 00028)

0028	
01:	attached to the inner vessel?
02:	A. Yes.

03:	Q.	Why is it important?
04:	Α.	It's the fill line. If that weren't attached,
05:	you woul	ldn't be able to fill. You wouldn't have a
06:	vacuum.	
07:	Q.	So if the fitting became detached from the
08:	inner ve	essel, you would not have a vacuum?
09:	Α.	Well, I would assume you probably lost your
10:	vacuum,	and that's why the fitting would come loose. It
11:	shouldn	't just come loose.
12:	Q.	What keeps the fitting from coming loose?
13:	Α.	The weld.
Plaintiffs	Objects	ions 402/403 - relevance, wastes time:
14:	Q.	How long does it take to manufacture a
15:	cryogen	ic tank?
16:	Α.	It varies from model to model.
17:	Q.	How long does it take to manufacture an MVE 800
18:	series t	cank?
19:	Α.	I don't know the exact time that that takes.
20:	Q.	What's the approximate time?
21:	A.	It probably takes about a day to manufacture

#### (continued page 00029)

22:

23:

24:

25:

0029	
01:	another day to finish the helium leak testing and any
02:	other steps of the production process?
03:	A. You have a few days. The vacuum process takes
04:	a few days to do. The helium leak detection is only
05:	it takes approximately a half an hour to do that.
06:	Q. Is it fair to say a MVE 800 series tank could

the vessel prior to going into buffing.

Q. And is buffing the polishing stage?

A. Yeah, the polishing. Yeah. Sorry.

Q. No problem. And then would it be perhaps

07:	be manufactured within a week?
08:	A. That's pretty fast. So no.
09:	Q. Could it be done within two weeks?
10:	A. Yes.
11:	Q. How many MVE 800 tanks does Chart manufacture
12:	each month?
13:	A. I don't know.
14:	Q. Do you have an approximation?
15:	A. I would have to research that to tell you. We
16:	have a lot of different models.
17:	Q. How many cryogenic freezers does Chart
18:	manufacture in a month?
19:	A. Usually around about 100 a month.
20:	Q. And approximately how many models does Chart
21:	manufacture out of the 3055 facility?
22:	A. There is do you want, like, part number
23:	count or just general?
24:	Q. General tank models.
25:	A. General tank models is probably 20 models.

### (continued page 00030)

0030	
01:	Q. Are there different stations for the production
02:	process?
03:	A. Yes.
04:	Q. How many stations are there?
05:	A. I don't know offhand.
06:	Q. Do you know an approximation?
07:	A. It would it would take me a few minutes to
08:	come up with that number.
09:	Q. Okay. So as a tank is being produced, does it
10:	move between different stations?

11:	A. Yes.
12:	Q. Does each station have a different team working
13:	it?
14:	A. It's different personnel, yes.
15:	Q. How many individuals touch a tank from the
16:	start of production to completion?
17:	A. That varies by the model.
18:	Q. How many people touch the MVE 800 series during
19:	production?
20:	A. We probably have approximately five people.
21:	Q. What are the roles of the approximate five
22:	people that would be involved in producing a MVE 800
23:	series tank?
24:	A. Primarily they would be a welder, we have one
25:	person that does the helium leak detection, and then we

#### (continued page 00031)

0031	
01: ha	ave the final crew which are not welders. They're just
02: ge	eneralists.
03:	Q. Is it generally a single welder working on an
04: ir	ndividual tank?
05:	A. It depends on the operation and the model.
06:	Q. What about for the MVE 800 series?
07:	A. It's probably two to three welders that would
08: be	e working on that one.
09:	Q. Does the MVE 800 series include the MVE 808?
10:	A. I would consider the 808 an open top and an 800
11: se	eries an HE model. And those are not the same freezer.
12:	Q. Okay. Is the 808 is the MVE 808 part of the
13: MV	TE stock series?
14:	A. I'm not familiar with the term "stock series."

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15:	Q. Okay. Is open top a series of freezers at
16:	Chart?
17:	A. Yes.
18:	Q. What models does that include?
19:	A. The 808 you speak of and there's a handful of
20:	other models as well.
21:	Q. Do you remember any of the others?
22:	A. Yes.
23:	Q. Can you name those?
24:	A. Sure. 1426, a 205, 1839.
25:	Q. Any others?

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01.		T 11 1 11 11 11 11 11 11 11 11 11 11 11
01:	A.	I think that's probably most of them.

Plaintiffs O	bjections 402/403 - relevance, wastes time:
06:	Q. How many welders would be involved in the
07:	production of an open top tank?
08:	A. That would be the three I mentioned earlier.
09:	Q. And earlier when we were discussing the annular
10:	lines, I think we may have been talking about those in
11:	terms of the MVE 800 series. Would everything you
12:	described about the order of production for the annular
13:	lines earlier apply to the open top tanks?
14:	A. The 800 series, what I would refer to as an HE
15:	freezer, would actually have annular lines welded
16:	slightly differently than an open top series.
17:	Q. Okay. So what you described earlier is the
18:	process for connecting the annular lines in an open top
19:	freezer?
20:	A. Yes.

21:	Q. And for an open top freezer is it approximately
22:	five people that would touch that tank during the
23:	production process?
24:	A. Approximately, yes.
25:	Q. Are the production stations located in the same

(continued	page 00	0033)
0033		
01:	space?	
02:	Α.	The same facility general floor space, yes.
03:	Q.	Is all of the production on a single floor?
04:	A.	Yes.
05:	Q.	Are there multiple welding stations?
06:	A.	Yes.
07:	Q.	How many?
08:	Α.	I would have to go out and count that to tell
09:	you.	
10:	Q.	Is it more than ten?
11:	Α.	For just the open top or for everything?
12:	Q.	For the open top.
13:	Α.	It is not more than ten, no.
14:	Q.	How many is it for the open top?
15:	Α.	Again, I'd have I'd have to count. It's
16:	less tha	an ten, but I couldn't tell you an exact number.
17:	Q.	Okay. Do you think it's less than five?
18:	Α.	It's probably close to five.
19:	Q.	How are the welding stations equipped?
20:	Α.	How do you mean "equipped"?
21:	Q.	Is there a single welding machine at each
22:	welding	station?
23:	Α.	Depending on the operation, yes, typically one
24:	welding	machine per each station.

25: Q. What operations would have more than one

#### (continued page 00034)

0034	page 00031)
01:	welding machine in the station?
02:	A. For some of our freezers that get lazy Susans
03:	we actually have aluminum welders and stainless welders.
04:	Q. Does the do the welding stations for the
05:	open top freezers have more than one welding machine?
06:	A. No. Probably not.
07:	Q. And is the one welding machine for the open top
08:	freezer a stainless steel welder?
09:	A. Yes.
10:	Q. Is the same type of welding machine used
11:	throughout the production of a single open top freezer?
12:	A. Yes.
13:	Q. What type of welding machine is currently used
14:	for the open top freezer?
15:	A. We typically use Miller welders.
16:	Q. Because you say typical or "typically," are
17:	there instances where you would not use a Miller welder
18:	on an open top tank?
19:	A. If a welder were to go down, we would take one
20:	out of our spare rotation. And there are other we
21:	have another one, but that's only been in recent time.
22:	Typically we are Miller only.
23:	Q. How long has that been the case?
24:	A. That we are Miller only or that we have others?
25:	Q. That you are generally Miller only.

#### (continued page 00035)

0035	
01:	A. For as long as I can recall.

02:	Q. And how long have you had other non-Miller
03:	welders available?
04:	A. Probably only in the last six to eight months.
05:	Q. And Miller is the manufacturer of the welding
06:	machine; correct?
07:	A. Correct.
08:	Q. Are there any other distinctions among the
09:	different welding machines other than the manufacturer?
10:	A. The size, the amperage. That's about it.
11:	Q. Do they all use the same welding material?
12:	A. Yes.
13:	Q. Why are there different size welding machines?
14:	A. Basically it's for duty cycle. So you're using
15:	amperage volts to create electrical current when you're
16:	welding. So the longer your weld, the more duty cycle
17:	that you need. Or basically it's an electronic device
18:	that will burn itself out. You can't weld.
19:	Q. Got it. The individuals who operate the
20:	welding machines, are those referred to as welders?
21:	A. Yes.
22:	Q. How many welders does Chart employ at the 3055
23:	location?
24:	A. Approximately 20.
25:	Q. Do all of those welders work on the open top

#### (continued page 00036)

0036	
01:	freezers?
02:	A. No.
03:	Q. Approximately how many work on the open top
04:	freezers?
05:	A. They're again, there's three in the process

06:	and maybe five in the facility that we would put there.
07:	Q. Okay. So three who regularly work on them and
08:	then another two who might work on it occasionally?
09:	A. Yes. We have floaters since we run lean.
10:	Q. What's the official title for the welders?
11:	A. They are either a Welder I or a Welder II.
12:	Q. What does it mean to be a Welder I?
13:	A. The welder is it's really just based on
14:	tenure, how long you've been here.
15:	Q. And is I more or less tenure?
16:	A. Less.
17:	Q. How much tenure would a welder need before they
18:	became a Welder II?
19:	A. I don't know the exact time. It's based on a
20:	pay scale and a schedule.
21:	Q. And are those the only two titles that welders
22:	would hold at the 3055 facility?
23:	A. Yes.
24:	Q. Who are the three welders that currently work
25:	on the open tops open top freezers?

#### (continued page 00037)

(	page occar,
0037	
01:	A. Like, you mean, you want their names of the
02:	actual operators?
03:	Q. Correct.
04:	A. There would be a Mark Ingram and a Tiffany
05:	Shuller. I'm not sure who our third floater is
06:	currently. We just we just lost a guy two weeks ago
07:	that was our other person.
08:	Q. What was the second name that you said? I
09:	heard the last name that I think Shuller, but I didn't

10:	catch the first name.
11:	A. Tiffany Shuller.
12:	Q. And do Mark and Tiffany work predominantly on
13:	the open tops or are they floaters?
14:	A. Predominantly open top.
15:	Q. And then the third person whose name you don't
16:	recall, was that worst person working predominantly
17:	on open top or was that person a floater?
18:	A. He was primarily a floater. He was just
19:	backfilling for us.
20:	Q. And then you had mentioned there might be
21:	another two individuals who were floaters who might
22:	sometimes work on open tops. Who are those individuals?
23:	A. One is Cole Anderson. And the other one just
24:	left last Friday. Brian Millsap.
25:	Q. How long has Mark Ingram been with Chart?

### (continued page 00038)

## $Adams, Seth \ \ ^{\text{Case 3:18-cv-01586-JSC}}_{\text{Volume 1}} \ \ ^{\text{Document 814-1}}_{\text{1}} \ \ ^{\text{Filed 05/23/21}}_{\text{2020}} \ \ ^{\text{Page 27 of 62}}_{\text{2020}}$

14:	Q. Has it been at least as long as you've been at
15:	the 3055 location?
16:	A. Yes.

#### Page 00040

rage 00010		
Plaintiffs	Object.	ions 402/403 - relevance, wastes time:
10:	Q.	BY MS. ZEMAN: Mr. Adams, who determines the
11:	assignm	ments for the different welders at the 3055
12:	facilit	γ?
13:	Α.	That would be the supervisor.
14:	Q.	Who's the supervisor?
15:	A.	Currently that is Kyle Eubanks.
16:	Q.	How long has Kyle Eubanks been the supervisor?
17:	A.	I don't know.
18:	Q.	Has it been a few years?
19:	Α.	Yes, a few years.
20:	Q.	Has it been more than a decade?
21:	Α.	No.
22:	Q.	What is Kyle's full title?
23:	Α.	I believe it's production supervisor.
24:	Q.	And what are the responsibilities of the
25:	product	ion supervisor?

#### (continued page 00041)

0041	
01:	A. Basically to monitor day-to-day activities,
02:	employee assignment, just ensuring the product continues
03:	to move on schedule.
04:	Q. Does Kyle report to you?
05:	A. Currently, yes.
06:	Q. Did he previously report to someone else?
07:	A. Yes.
08:	Q. Was that before you became the operations

09:	manager?
10:	A. No.
11:	Q. When did he start reporting to you?
12:	A. Approximately March this year.
13:	Q. Who did he report to before that?
14:	A. Timothy Logan.
15:	Q. Why did that reporting structure change?
16:	A. We had a reduction in force, and Timothy
17:	Logan's role of production manager was eliminated.
18:	Q. What were the responsibilities of the
19:	production manager?
20:	A. A hybrid of both mine and the production
21:	supervisor more or less to support the supervisor, work
22:	with HR for staffing needs. Again, keeping product
23:	moving down the line to meet on-time delivery and also
24:	monitoring any day-to-day safety needs or activities and
25:	also any CI opportunities.

#### (continued page 00042)

0042	
01:	Q. And would the production supervisor determine
02:	who works predominantly on open tops versus some other
03:	projects?
04:	A. Yeah, he probably would. Yes.
05:	Q. And would the production supervisor determine
06:	what specific tasks a floater would be assigned to?
07:	A. He and the production manager together, yes.
08:	Q. Do the welders report to the production
09:	supervisor?
10:	A. Yes.
11:	Q. Do they report to anyone else?
12:	A. No.

13:	Q. Does Chart require any particular
14:	qualifications for its welders?
15:	A. They do have to pass a weld test.
16:	Q. Is that a weld test administered by Chart?
17:	A. Yes.
18:	Q. Where is that test administered?
19:	A. Typically in the 1300 building.
20:	Q. Can you describe the test generally?
21:	A. Not very well. I'm not 100 percent familiar
22:	with how they do that.
23:	Q. Okay. Is it something that takes place over
24:	several days?
25:	A. Typically the test takes a few hours.

#### (continued page 00043)

0043		· ,
01:	Q.	Is it a practical test in the sense that the
02:	welders	have to actually weld material?
03:	Α.	Yes.
04:	Q.	Are there any other requirements for the
05:	welders	employed by Chart at the 3055 location?
06:	A.	Other than the test, no.
07:	Q.	Are there any educational requirements?
08:	A.	Yes.
09:	Q.	What's the education required for the welders?
10:	Α.	They have to have a high school diploma or a
11:	GED.	
12:	Q.	Anything higher than that?
13:	Α.	No.
14:	Q.	Are they required to have any welding
15:	certific	cations other than passing Chart's test?
16:	Α.	No.

17:	Q. Does Chart issue some sort of certification if
18:	a welder passes the Chart test?
19:	A. Not an official certificate, no.
20:	Q. Is a welder considered certified if they pass
21:	the Chart weld test?
22:	A. I believe so, yes.
23:	Q. Are there any continuing training obligations
24:	once a welder passes the Chart weld test?
25:	A. For our product, no.

#### Page 00047

Page 00047	
Plaintiffs Object	tions 106 - incomplete excerpt; 402/403 - relevance,
wastes time:	
13: Q.	Okay. Who create who generates work orders?
14: A.	That would be our scheduler.
15: Q.	Who is that?
16: A.	For us that's Teresa Parmer.
17: Q.	Have you seen work orders for open top tanks?
18: A.	Not directly. I'm sure I have on the floor
19: though	, yes.
20: Q.	You're confident that there are work orders in
21: existe	nce for open top tanks?
22: A.	Yes.
23: Q.	Have you seen work orders for the MVE 808?
24: A.	Not the 808 specifically.
25: Q.	Would there be work orders for the MVE 808

#### (continued page 00048)

0048	
01:	specifically?
02:	A. Yes.
03:	Q. In order for any tanks to have been produced as
04:	MVE 808s, they would have had to have work orders
05:	generated; correct?

06:	Α.	Correct.
07:	0	Have would you lorge and work and are for MID
0 / .	Q.	How would you locate past work orders for MVE
08:	808s?	
09:	Α.	I would have to ask our scheduler how to do
10:	that.	
11:	Q.	Have you asked the scheduler in the past to
12:	provide	work orders to you for past orders?
13:	Α.	For past orders, no.
14:	Q.	Okay. For current orders?
15:	Α.	Typically if we want to see what's on the
16:	schedul	e, yes.
17:	Q.	Are orders saved within Chart's electronic
18:	systems	after issuance?
19:	Α.	I don't know.
20:	Q.	Do you think they are?
21:	Α.	I think they are.
22:	Q.	Is a work order utilized in the production
23:	process	of open top tanks?
24:	Α.	Yes.
25:	Q.	Are work orders utilized in the production of

#### (continued page 00049)

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	0049		
01	:	the MVE	808 tanks?
02	:	Α.	Yes.
03	:	Q.	Are work orders utilized in the manufacture of
04	:	MVE 808	tanks?
05	:	Α.	Yes.
06	:	Q.	Is a work order another term for a bill of
07	:	material	L?
08	:	Α.	No.
09	:	Q.	What's a bill of material?

10:	A. A bill of material is a long list of parts, but
11:	it is a complete list of parts. So it would also have
12:	those MRO items that I mentioned earlier. It also has
13:	structure.
14:	Q. What is structure?
15:	A. The work order part list you have shown is just
16:	all of the parts, but it doesn't tell you where the
17:	parts go. The structure tells you if certain parts go
18:	together to make a subassembly within the entire
19:	construction of the freezer.
20:	Q. Is there a bill of material for the MVE 808?
21:	A. Yes.
22:	Q. Is there a single bill of material for the MVE
23:	808?
24:	A. No. There's multiple.
25:	Q. Why are there multiple?

#### (continued page 00050)

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0050	
01:	A. I'm sure there's multiple finished part numbers
02:	of 808s.
03:	Q. Would there be a bill of material for each
04:	finished part number?
05:	A. Yes.
06:	Q. Would there be more than one bill of material
07:	for each finished part number?
08:	A. No.
09:	Q. How would you go about locating the bill of
10:	material all of the bill of materials for the MVE
11:	808?
12:	A. I would excuse me. I would need all of the
13:	final part numbers. And I would put them in our El

14:	system and search the bill of material.
15:	Q. And what's the format for a bill of material?
16:	A. How do you mean "format"?
17:	Q. Is it a Word document?
18:	A. No. This El is it's a module of its own.
19:	And it basically looks like an Excel table, but it's not
20:	a document that gets produced, no.
21:	Q. Can you download a bill of material from the El
22:	system?
23:	A. Yes.
24:	Q. If you did so, what format would the document
25:	be in?

#### (continued page 00051)

(	page 00051)
0051	
01:	A. An Excel spreadsheet.
02:	Q. And is the title of that document bill of
03:	material?
04:	A. It won't have a title. That's for you to
05:	establish when you save it if you download to Excel.
06:	Q. Within the document that you download would
07:	there be any title in the header or at the top of the
08:	document?
09:	A. Yes. There would be a description. And that
10:	would be based off the final part number and how that's
11:	identified in E1.
12:	Q. Would the description include the term bill of
13:	material?
14:	A. No, it would not.
15:	Q. What do you mean when you say the description
16:	would be based off the final part number?
17:	A. So the it would be however we name the

18:	product. So if we call it a Final 808 MVE Series,
19:	that's what the description would be and that's what
20:	would tie to that part number.
21:	Q. Would the term "bill of materials" show up
22:	anywhere in the downloaded document?
23:	A. No.
24:	Q. Would BOM appear anywhere in the document?
25:	A. No.

#### (continued page 00052)

(continued page 00052)
0052
01: Q. If you were looking at a document, how would
02: you know whether it was a bill of material or not?
03: A. For me, I would see a level. So that structure
04: I had mentioned earlier would tell me if it's a level
05: one or level two. And when I see levels, I know that's
06: a bill of material.
07: Q. What do you mean by "level"?
08: A. Level one would be a final assembly. Level two
09: would be the major subassemblies that create that.
10: Level three would be smaller pieces that make those
11: subassemblies. So
12: Q. And would, for instance, level one appear
13: within the document?
14: A. Yes.
15: Q. What are bill of materials used for?
16: A. Many, many things.
17: Q. What are some examples?
18: A. One good example of a bill of material is just
19: to make sure that our quantity, our usage is correct so
20: that balances our inventory properly.
21: Q. What's another example?

22:	A. Just to make sure that we have all of the
23:	correct parts called out for that particular product and
24:	to ensure that it gets built as designed or as the
25:	customer wants.

(continued	page 0	0053)
0053		
01:	Q.	Do any other examples come to mind?
02:	Α.	Not offhand, no.
03:	Q.	Are how often is a bill of material updated?
04:	Α.	It's on a as-needed basis.
05:	Q.	In general how often is a bill of material
06:	updated	?
07:	Α.	That varies on the product.
08:	Q.	Could it be as often as once a year?
09:	Α.	It could be, yes.
10:	Q.	Could it be more frequent?
11:	Α.	It could be, yes.
12:	Q.	Is it usually more frequent?
13:	Α.	Probably not, no.
14:	Q.	Is a bill of material a design document?
15:	Α.	I don't know that I would call it that.
16:	Q.	How would you characterize it?
17:	Α.	A parts list. It's a bill of material. I
18:	don't k	now how else I would characterize it.
19:	Q.	Did you say it's a parts list?
20:	Α.	Basically, yes.
21:	Q.	Is a bill of material utilized in the
22:	manufac	ture of open top tanks?
23:	Α.	Do you how do you mean?
24:	Q.	Is it utilized in any part of the manufacture
25:	of open	top tanks?

#### (continued page 00054)

0054	,
01: A	. It can be referenced. It's not used day to
02: day.	
03: Q	. But it can be referenced in the manufacturing
04: proce	ess?
05: A	. Absolutely.
06: Q	. Are bills of materials sometimes referenced in
07: the r	manufacturing process of open top tanks?
08: A	. I don't know.
09: Q	. Would you expect it to be?
10: A	. Yes.
11: Q	. Does Chart keep any other documents that you
12: would	d characterize as a parts list?
13: A.	. Just that bill of material or the work order
14: that	you displayed.
15: Q	. Anything else?
16: A.	. Not that I can think of, no.

#### Page 00061

Plaintiffs Objections 402/403 - relevance, wastes time:
Q. Do you know what welding machine is currently
24: used in the production of the MVE 808?
25: A. No. I would I would have to go look at it

#### (continued page 00062)

0062	
01:	to see.
02:	Q. Would you need to look at the actual production
03:	stations?
04:	A. Yes.
05:	Q. Would the welders know which machines are used
06:	on the MVE 808?

_	
07:	A. Well, they would look at their station. They
08:	would be at the welder. But they wouldn't know offhand.
09:	Q. Does let me rephrase that. Are T-I-G
10:	welders used in production of the MVE 808 currently?
11:	A. Yes.
12:	Q. Is that typically referred to as a TIG welder?
13:	A. Yes.
14:	Q. What does T-I-G stand for?
15:	A. I believe it's tungsten inert gas.
16:	Q. Can you explain how a TIG welder works?
17:	A. Real crudely, you have a tungsten tip and
18:	you're shooting electricity through that tip into the
19:	metal and the electricity is melting the metal.
20:	Q. And is the goal of that TIG welding to fuse
21:	together two metal surfaces?
22:	A. Yes.
23:	Q. Are the TIG welders used by hand?
24:	A. Yes.
25:	Q. And are all of the welds on the MVE 808

## (continued page 00063)

0063	
01: cor	mpleted by hand?
02:	A. I believe so, yes. With exception of one.
03:	Q. What's the one exception?
04:	A. The long seam.
05:	Q. Is that on the outside of the outer vessel?
06:	A. Both the inner vessel and the outer vessel
07: who	ere the shell rolls around to make a cylinder, where
08: tha	at joint is, that's what we call the long seam.
09:	Q. Does Chart also use M-I-G welders?
10:	A. Yes.

11:	Q.	Is that called a MIG welder?
12:	Α.	Yes.
13:	Q.	Are MIG welders used to manufacture the MVE
14:	808?	
15:	Α.	I don't believe so.

Page 00064	
	S Objections 602 - speculation; 402/403 - relevance, wastes
time:	
01:	Is there a procedure at Chart for how to apply
02:	a weld on the MVE 808?
03:	A. There's procedures for how to assemble the
04:	tanks, yes.
05:	Q. Would those procedures include welding
06:	instructions?
07:	A. They may.
08:	Q. Are you not sure whether they do?
09:	A. I'm not sure.
10:	Q. Are there procedures for how to apply a weld to
11:	open top tanks?
12:	A. I don't I don't I don't know.
13:	Q. Are there general welding procedures at Chart?
14:	A. General as in what do you mean general?
15:	Like overall how to weld or?
16:	Q. Correct.
17:	A. I don't know if there's a general how to weld
18:	procedure.
19:	Q. Are there any procedures effective at the 3055
20:	facility regarding what types of welds should be used on
21:	Chart products?
22:	A. I don't know that the procedures tell you which
23:	weld to use, whether MIG or TIG.
24:	Q. Are there different types of sorry. Let me

25: back up.

## (continued page 00065)

	page 00003)
0065	
01:	Are there different types of weld styles?
02:	A. Styles as in application or as in the welder
03:	itself?
04:	Q. Application.
05:	A. I mean, between automated or by man, those are
06:	the only two.
07:	Q. Are there written procedures for how to
08:	assemble an MVE 808?
09:	A. I don't know for the 808 specifically, but we
10:	do have written procedures, yes.
11:	Q. Are there written procedures for how to
12:	assemble an open top tank?
13:	A. There should be some, yes.
14:	Q. How would you go about finding such a document?
15:	A. I would go into MasterControl and search the
16:	vault for cryo and look for the active work
17:	instructions.
18:	Q. How would the procedures for how to assemble an
19:	open top tank be titled?
20:	A. It would be titled by a general name for the
21:	operation it's speaking to.
22:	Q. Would it be categorized as production
23:	procedures?
24:	A. For us to find it in MasterControl, yes, when I
25:	use that term "vaults," that would be the categories

## (continued page 00066)

	0066	
	01:	that we would chase.
П		

0	Q. What are vaults within the El system?
0	3: A. It's basically an organizer like a network to
0	help navigate to help find the work instruction you
0	5: need.
0	6: MR. DUFFY: Amy, I think you may have misspoke.
0	7: You said E1. He's talking about MasterControl.
0	3: THE WITNESS: Oh, I'm sorry. Yes. Master
0	9: MR. DUFFY: I just want to make sure we're
1	o: talking about the same thing.
1	1: MS. ZEMAN: Yep. I appreciate that
1	2: clarification.
1	Q. So within MasterControl there are vaults?
1	4: A. Yes.
1	Q. And the vaults are ways of organizing the
1	5: documents?
1	7: A. Yes. Folders.
1	Q. I was going to say, to a layperson they're
1	effectively folders?
2	O: A. Yes.
2	Q. Okay. And the vault where the procedures for
2	2: how to assemble an open top tank would be located would
2	be the I forgot my own language here the
2	4: production procedures vault?
2	A. It would be production, yes.

#### (continued page 00067)

	J	
0067		
01:	Q.	Would there be a subvault within production?
02:	Α.	Yes. It would be cryo.
03:	Q.	And any subfolder within cryo?
04:	Α.	This one in particular would be inner outer.
05:	Q.	What do you mean by "this one in particular"?

06:	A. For a open top freezer.
07:	Q. And would there be procedures for each
08:	different model of open top or a single procedure for
09:	all open tops?
10:	A. Mostly a single procedure, unless there was
11:	something drastically different on a model.
12:	Q. Are you aware of any procedures other than the
13:	general open top for open top freezers?
14:	A. No.
15:	Q. If there are welding procedures for open top
16:	tanks, would those be included in this inner outer
17:	subvault?
18:	A. Yes.
19:	Q. Is it possible they would be located anywhere
20:	else?
21:	A. I don't think so.
22:	Q. Have you seen any written welding procedures
23:	for Chart?
24:	A. Yes.
25:	Q. Can you describe those?

## (continued page 00068)

0068	
01:	A. It would be generally, you know, if it's tack
02:	weld two pieces together to hold or whatever the
03:	assembly stage may be before, you know, welding a
04:	component on or two pieces together.
05:	Q. When have you seen those?
06:	A. At different times.
07:	Q. What was the context for seeing them?
08:	A. Most recently reviewing one for accuracy due to
09:	a customer change.

10:	Q. The one that you looked at most recently, was
11:	that related to open top tanks?
12:	A. No, it was not.
13:	Q. Did it apply to open top tanks?
14:	A. No, it did not.
15:	Q. Have you ever looked for welding procedures at
16:	Chart?
17:	A. Yes.
18:	Q. Have you looked for welding procedures for open
19:	top tanks?
20:	A. Yes.
21:	Q. When?
22:	A. It's been a while since I've looked.
23:	Q. Was it within the last year?
24:	A. Oh, yeah.
25:	Q. Why were you looking for them?

## (continued page 00069)

0069	
01:	A. The most recent one would have been for I think
02:	we had a co-op working on some just to make sure he had
03:	everything in that cell documented correctly. That the
04:	numbers were right.
05:	Q. What's a co-op?
06:	A. A co-op is an intern.
07:	Q. And what does it mean to have everything in
08:	that cell documented correctly?
09:	A. We had noticed that the shell rolling procedure
10:	was in a procedure for our HE models. So we wanted to
11:	break that out and make the open top one specifically
12:	stand alone.
13:	Q. Any other instances where you searched for

14:	welding procedures for open top tanks?
15:	A. Earlier this year Jeff Brooks had requested I
16:	try to find some for him as well.
17:	Q. Where did you look to find those for Jeff
18:	Brooks?
19:	A. MasterControl.
20:	Q. Where within MasterControl?
21:	A. The vaults that I mentioned to you earlier.
22:	Q. Did you find any?
23:	A. I don't recall being able to find what he we
24:	found the current active revisions.
25:	Q. You did find the current. What are the current

## (continued page 00070)

(concluded page 00070)
0070
01: active revisions?
02: A. I don't recall offhand.
03: Q. Does current active revisions refer to the
04: currently applicable procedure?
05: A. Oh. Yes. In that case, yes, they are the
06: active today versions.

### Page 00070

Plaintiffs	Object	ions 602 - speculation; 402/403 - relevance, wastes
time:		
22:	Q.	Did the procedures you found apply to the MVE
23:	808?	
24:	Α.	They probably would have, yes.
25:	Q.	If they applied to open top tanks, they would

## (continued page 00071)

0071	
01:	have applied to the MVE 808; correct?
02:	A. Most likely.
03:	Q. Do you remember the titles of those documents?

04:	Α.	That I do not, no.
05:	Q.	Did you look anywhere other than MasterControl
06:	for tho	se documents?
07:	A.	I don't believe so, no.
08:	Q.	Did you tell Jeff Brooks that you had found
09:	procedu	res for welding?
10:	Α.	I don't recall.
11:	Q.	Does Chart have specifications for the welds on
12:	its cry	ogenic freezers?
13:	Α.	I believe they do, yes.
14:	Q.	Are those documented somewhere?
15:	Α.	Yes.
16:	Q.	Where?
17:	Α.	I would think MasterControl.

Plaintiffs Objections 602 - speculation; 402/403 - relevance, wastes time:
15: Q. And you found instructions for manufacturing
16: open top tanks; correct?
17: A. I found ones that were active today, yes.
18: Q. Did those instructions include welding
19: procedures?
20: A. The instructions are the procedures. Are you
21: asking something more specific?
22: Q. Yes. I was asking specifically whether the
23: instructions include welding procedures?
24: A. That I don't recall. I'd have to go back and
25: look at those.

## (continued page 00073)

01	073
01:	Q. Returning to welding specifications, what
02:	documents would those be contained in?

03:	Α.	I believe we call those WPSs.
04:	Q.	What does that stand for?
05:	Α.	I'm not entirely sure. I think it's weld
06:	paramet	er specifications, I think.

24:	Q. When Chart hires a new welder, what documents
25: are	provided to the new welder regarding welding?

## (continued page 00074)

(COlletifue	ed page 00074)
0074	
01:	A. That I don't know.
02:	Q. Would a new welder receive training at Chart?
03:	A. They would if they were a new welder hired
04:	as a welder, they would pass the weld test. There
05:	wouldn't be any weld training, no.
06:	Q. Would they receive any training at all though?
07:	A. They would receive on-the-job training. So
08:	whatever the assignment, the position they were put
09:	into, they would receive training on how to do that or
10:	what the expectation may be.
11:	Q. Is there is there a formal training process
12:	for new welders?
13:	A. There is not to my knowledge, no.
14:	Q. Would a new welder be assigned to shadow a
15:	current welder?
16:	A. Typically that that's what we do. We have
17:	them shadow for approximately a week.
18:	Q. Is a new welder given any welding procedure
19:	documents?
20:	A. That I don't know.
21:	Q. Are is a new welder informed about any
22:	welding standards or specifications required at Chart?

23:	Α.	I don't know.
24:	Q.	Who would know that?
25:	Α.	I don't know.

Page	00075	
01:	Q.	Who would you ask to find that out?
02:	Α.	I would probably start with my supervisor.
03:	Q.	Who is that?
04:	Α.	That was Kyle Eubanks.
05:	Q.	Would you ask the welders?
06:	Α.	No. I would typically go to my supervisor
07:	first.	
08:	Q.	Do you think the welders would know?
09:	Α.	Maybe.
10:	Q.	Do you think the production supervisor would
11:	know?	
12:	Α.	He would know if he used any documents like
13:	that in	training, yes.
14:	Q.	Does the production supervisor train new
15:	welders	
16:	Α.	He is the one that puts them in assignment and
17:	pairs th	nem with whoever he shadows. So ultimately I
18:	hold hir	responsible.

## Page 00076

Plaintiffs	Objection	402/403 - relevanc	ce, wastes time:
25:	Q. Do	ou think that Chart has d	documentation for

#### (continued page 00077)

	,	The first of
	0077	
	0077	
	01:	the settings to be used on its welding machines?
	01.	the settings to be used on its weighing machines:
	02:	N Wo do rea
4	02.	A. We do, yes.
4		

Plaintiffs	Objections 602 - speculation:
20:	Q. What is Buster Ingram's role?

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21:	A.	Currently he is a CI technician.
22:	0.	Was he something previous to being a CI?
	~	
23:	Α.	He would have been a welder previous to that.
24:	Q.	How long has Buster been with Chart?
25:	Α.	I don't know.

### (continued page 00079)

•	1 3	· · · ·
0079		
01:	Q.	Is it a long time?
02:	A.	Yeah, it's a long time.
03:	Q.	Decades?
04:	Α.	Yes, decades.

#### Page 00079

Plaintiffs	Objections 602 - speculation; 402/403 - relevance, wastes
time:	
23:	Q. What do you understand settings for the welder
24:	to mean?
25:	A. Settings for the welder would be basically

## (continued page 00080)

0080
01: voltage and amp control, I believe. I think that's all
02: you can set on them.
03: Q. And would there be a single set of settings for
04: a particular tank?
05: A. No. It would probably be a general range.
06: Q. Okay. Would the settings vary by the
07: particular weld?
08: A. Possibly. Or the welder. The person.
Defense Counters Adams Deposition Ex. 665 is Trial Exhibit 185:
09: MS. ZEMAN: Okay. Rob, if you could enter as
10: exhibit are we on Plaintiffs' 665 I think the
11: document with the Bates stamp of CHART000088.
12: THE VIDEOGRAPHER: One moment, please.
13: MS. ZEMAN: Sure.
14: (Plaintiffs' Exhibit 665 marked for

15: identification.)

## Page 00080

Plaintiffs Obj	ject	ions 402/403 - relevance, wastes time (subsequent
testimony idea	ntif	ies CHART070444 as assembly drawing used in
<pre>production):</pre>		
21:	Q.	Mr. Adams, do you recognize this document?
22:	Α.	Yes.
23:	Q.	What is this?
24:	Α.	It appears to be a drawing of the MVE 808.
25:	Q.	And how do you know that?

#### (continued page 00081)

(continued	page of	7081)
0081		
01:	Α.	By looking in the title block.
02:	Q.	Is that down at the bottom right of the
03:	document	t?
04:	Α.	Yes. Lower right-hand corner.
05:	Q.	Is this essentially a design drawing for the
06:	MVE 808	tank model?
07:	Α.	Yes. This would be a final. Final level
08:	design.	
09:	Q.	Is this document utilized in the production
10:	process	for the MVE 808?
11:	Α.	By the production team?
12:	Q.	Anywhere within the production process.
13:	Α.	I don't think we would use it on a daily basis,
14:	no.	
15:	Q.	Would the production team on the essentially
16:	the man	ufacturing floor use this document?
17:	Α.	Not daily. The QC inspection team would maybe
18:	reference	ce it for some of these height dimensions that
19:	you see	called out.
20:	Q.	Would the document be used for anything else at
21:	Chart?	
22:	Α.	Engineering would maybe look at it

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23: periodically, you know, if there's -- if there's a

24: discrepancy in production or quality.

25: Q. Would a design document like this serve as the
```

#### (continued page 00082)

( COLLOLLIAGA P	(concenius page court)		
0082			
01: f	foundation for assembly instructions?		
02:	A. At this level only final assembly.		

#### Page 00082

```
Plaintiffs Objections 402/403 - relevance, wastes time, confusing
(subsequent testimony identified CHART070444 as assembly drawing used
at production):
09:
                      MR. DUFFY: What's the exhibit number again,
10:
               Amy?
11:
                      MS. ZEMAN: This is Exhibit 665. And the Bates
               number is CHART000088.
12:
                      MR. DUFFY: Got it. Thank you.
13:
14:
                      MS. ZEMAN: And I also just dropped it into the
15:
               chat for everyone.
                      THE WITNESS: I do not see the annular lines in
16:
               this drawing.
17:
                      MS. ZEMAN: Rob, if you could scroll up to the
18:
19:
               top again.
20:
                      In the image at the top left, can you see the
               top of where the annular lines are?
21:
22:
                      The image in the up left, I can see the --
23:
               where they would come out of the freezer, yes.
24:
                  Q.
                    And where is that?
25:
                    That would be in that top ring, what we would
```

#### (continued page 00083)

0083	
01:	call the top head. And that's in the upper left-hand
02:	corner, in the upper left-hand corner of the drawing as
03:	well.
04:	MS. ZEMAN: Okay. If we could close that and

05: enter as Exhibit 666 CHART070444.

## Page 00083

Defense Count	ers Adams Deposition Ex. 666 is Trial Exhibit 272:
15:	Q. Mr. Adams, do you recognize this document?
16:	A. Yes.
17:	Q. What is this?
18:	A. This would be a drawing of the inner outer
19: as	sembly.
20:	Q. Does it illustrate one or more of the annular
21: li	nes?
22:	A. Yes, it does.
23:	Q. Where does it show that?
24:	A. Essentially the top middle of the drawing, the
25: se	ction the center section with the tank.

Page 00084	
07:	Q. So within the document there are two large
08: de	pictions of the tank; correct?
09:	A. Yes.
10:	Q. One on the left appears to be looking down from
11: al	ove the tank; is that right?
12:	A. Correct.
13:	Q. And the one on the right appears to be a
14: cı	taway with a tank laying on its side; is that correct?
15:	A. Correct.
16:	Q. Which of those two images shows the annular
17: 1:	ne?
18:	A. The side view that you mentioned last.
19:	Q. Okay. So the one that's a cutaway with the
20: ta	nk laying on its side?
21:	A. Yes.
22:	Q. And is the annular line what we see running
23: a	ross the top of that image horizontally?

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24:	Α.	Yes. Between the two walls.	
25:	Q.	Okay. It looks like it's marked with a 26 and	

## (continued page 00085)

(COLICE LITUE	L page 00003)
0085	
01:	a circle with an arrow extending with the circle to the
02:	annular line?
03:	A. Yes.
04:	Q. Okay. And do you know if that's the fill line
05:	or the sensor line?
06:	A. That I don't know.
07:	Q. Are they constructed identically?
08:	A. I'm not sure, but they should be.
09:	Q. Okay. The intention is that they would be
10:	assembled and constructed identically?
11:	A. At least very similar, yes.
12:	Q. Okay. And at the far right of the annular
13:	line, which would be the bottom of the annular line if
14:	the tank were upright, is the number 30 pointing at the
15:	fitting that attaches the annular line to the inner
16:	vessel?
17:	A. Yes.

#### Page 00089

13:	Does the fitting need to be attached to the
14:	inner vessel in order for it to operate as intended?
15:	A. I would think so, yes.
16:	Q. If the fitting broke away from the inner
17:	vessel, would the tank operate as intended?
18:	A. No.

09:	Q. One of the annular lines on the MVE 808 is used
10: to	o fill the tank with liquid nitrogen; correct?

_	
11:	A. I believe so, yes.
12:	Q. Is that annular line that's used for filling
13:	the tank straight?
14:	A. Once in the annular space, it is straight. I
15:	think so.
16:	Q. Would you expect it to be curved in any way?
17:	A. No.

06:	Q.	Do you know what a full penetration weld is?
07:	Α.	I'm familiar with the term, yes.
08:	Q.	What does it mean?
09:	Α.	It means when the weld fully penetrates the
10:	base ma	aterial.

#### Page 00091

	-9 · · · · · · -
Pl	aintiffs Objections 402/403 - relevance, wastes time, confusing:
De	fense Counters Begin with "Under what circumstances":
17:	your discussions with counsel. Under what circumstances
18:	is a full penetration weld required?
19:	A. To my knowledge, typically it's a code
20:	requirement.
21:	Q. What code?
22:	A. What comes to mind is in our industrial
23:	division down the street like an ASME code or a PED
24:	code, a pressure vessel code would typically require
25:	that.

#### Page 00092

- 430 0007	
Plaintiffs	Objections 402/403 - relevance, wastes time:
10:	Q. How can you verify that a full penetration weld
11:	has been applied?
12:	A. To my knowledge using an x-ray.

16:	Q. Are there quality assurance measures in place
17:	at the 3055 facility to ensure welds are applied

18:	properly?
19:	A. Yes.
20:	Q. What are those measures?
21:	A. I would say our helium leak detection.
22:	Q. Anything else?
23:	A. Other than a visual quality, no.
24:	Q. What visual quality inspection would be done of
25:	the welds?

#### (continued page 00101)

	page 00101)
0101	
01:	A. They would we would look at the weld for
02:	either a pinhole or a gap, a missed section, or any type
03:	of inclusions that are very obvious and don't belong.
04:	Q. And would each weld be inspected as it was
05:	completed, or would there just be an inspection once the
06:	tank was generally complete?
07:	A. Typically the welds are inspected by the person
08:	applying the weld.
09:	Q. So essentially the welder would apply a weld
10:	and then inspect it after finishing the process to
11:	confirm it was done correctly?
12:	A. Correct.
13:	Q. And then would the welds that are visible be
14:	visually inspected when the tank was completed in full?
15:	A. Those that are easily accessible, yes.
16:	Typically around the outside we always give one final
17:	visual inspection more so for aesthetics so it's
18:	visually pleasing to the customer.
19:	Q. So that inspection would not necessarily be
20:	looking for gaps, pinholes, or inclusions?
21:	A. It would, but from an aesthetics standpoint.

22:	If there was a black mark that was stuck in the weld
23:	that needed to be, you know, buffed out by hand, for
24:	example.
Plaintiffs	Objections 402/403 - relevance, wastes time:
25:	Q. And who does that final inspection?

#### (continued page 00102)

(continue	ed page 00102)
01:	A. Typically that's kind of done by both our
02:	quality technician and whomever is doing any of the
03:	final prep that wipes the tank down, cleans it, puts
04:	labels. They're all sort of tasked with visual
05:	inspection.
06:	Q. Is there also a heated mass spectrometer test
07:	completed?
08:	A. Did you a heated mass spectrometer? I'm not
09:	familiar with that term. We do use a mass spectrometer.
10:	That is the helium leak detection.
11:	Q. Ah. That may have been a typo on my part for
12:	helium mass spectrometer test.
13:	A. That would be correct. It would be a helium
14:	mass spectrometer test.
15:	Q. Okay. And is that the helium leak test that
16:	you referred to earlier?
17:	A. Yes.
18:	Q. And who conducts that test?
19:	A. We have a what we call a mass spec operator.
20:	Q. Is that a single person who does the test on
21:	various tanks?
22:	A. Yeah. It's one person for all tanks.
23:	Q. Who is that person currently?
24:	A. Currently that is Tony Childers.
25:	Q. And how long has Tony Childers done that?

## (continued page 00103)

0103
01: A. I don't know.
02: Q. Has it been a long time?
03: A. Yes.
04: Q. Has it been decades?
05: A. He's been with the company decades. I don't
06: know if he's done that job decades.
07: Q. Okay. Does Chart do a warm vacuum test on the
08: tanks after manufacture?
09: A. After our evacuation process, yes.
10: Q. What is that testing for?
11: A. It basically ensures that the vacuum that we
12: placed on the tank meets our standards, our
13: expectations. And that's directly coming off the
14: evacuation manifold.
15: Q. And that's referring to what should be the
16: final vacuum that's pulled before the tank is shipped
17: out; correct?
18: A. Correct. That is the vacuum level that the
19: customer will receive with the freezer.
20: Q. And who conducts that test?
21: A. That is also Tony.
22: Q. Does Chart do anything to measure the weld
23: thickness on any of the weld lines on an open top tank?
24: A. Typically, no.
25: Q. Is there a way to do so?

## (continued page 00104)

0104		
01:	A. I'm sure there's a way, but I wouldn't be	
02:	familiar with it.	

03:	Q. Is the helium leak test done to each tank
04:	produced at the 3055 facility?
05:	A. Yes. Every freezer produced receives a helium
06:	mass spec check leak check.
07:	Q. And is the warm vacuum test done to every tank?
08:	A. Yes. Warm vacuum is done to every freezer as
09:	well.
10:	Q. And the visual inspection is done on every
11:	tank?
12:	A. Yes.
13:	Q. Do the welders receive performance reviews?
14:	A. Yes.
15:	Q. Who conducts those reviews?
16:	A. The supervisor does.
17:	Q. For the open top tanks would that be Kyle
18:	Eubanks?
19:	A. Currently, yes.
20:	Q. When the supervisor used to be a hybrid
21:	position do you know what I'm referring to?
22:	A. I do not.
23:	Q. I think you had referred to earlier before Kyle
24:	took the position there was I believe Timothy?
25:	A. Yes. The production manager, yes. Timothy

## (continued page 00105)

0105	
01:	Logan.
02:	Q. Thank you for the recollection. Would the
03:	production manager at any point have done the
04:	performance reviews for the welders?
05:	A. Yes, he would have done them.
06:	Q. So production manager and the production

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07:	: supervisor may have done welder performance reviews over
08:	the years; is that correct?
09:	: A. Correct.

#### Page 00106

Plaintiffs Objections 402/403 - relevance, wastes time:
19: Q. Are you aware of any instance where a weld
20: failed to seal?
21: A. Yes.
22: Q. When?
23: A. Typically at our mass spec station, that's
24: specifically what it's designed to do is to pinpoint any
25: welds that aren't sealed properly.

#### Page 00107

Defense O	bjections Dissimilar other occurrence; MIL No. 1; weld failed
because o	of customer abuse; customer put a hole in the stainless steel:
15:	Q. Okay. Are you aware of any instances where a
16:	weld failed after a tank was shipped out of the
17:	production facility?
18:	A. We outside of this one?
19:	Q. Outside of this subject tank in this
20:	litigation, correct.
21:	A. Right. We've had them. We've had one recently
22:	due to customer abuse.
23:	Q. What sort of abuse?
24:	A. They had abused the inner wall in a manner that
25:	they basically put a hole through the stainless.

#### Page 00108

13:

Defense Objections Objection to "Excluding the subject tan in this litigation"; This is argumentative and the witness has not seen the subject tank; the question starts with "are you aware..."; references a 2020 incident with an unknown model tank; dissimilar other occurrence; MIL No. 1.:

11: Q. Excluding the subject tank in this litigation,

12: are you aware of any instance where a cryogenic freezer

became deformed after production?

14:	Α.	After production in customer usage?
15:	Q.	Sure.
16:	Α.	Yes. The one I just mentioned. It was due to
17:	abuse.	
18:	Q.	And the one you mentioned had a hole placed in
19:	the inn	er vessel; correct?
20:	Α.	Correct.
21:	Q.	How did that happen?
22:	Α.	We don't know exactly. We can only assume what
23:	happene	d.
24:	Q.	When did you learn of that instance?
25:	Α.	That tank was earlier this year. Probably

## (continued page 00109)

	inued page 00109)
010	9
01:	around March.
02:	Q. How big is the hole in it?
03:	A. It's fairly tiny.
04:	Q. Where is the hole located?
05:	A. I think it was approximately 6 inches down from
06:	the top.
07:	Q. Is it in a weld line?
08:	A. No.
09:	Q. Is it just in the sheet of stainless steel?
10:	A. Yes.
11:	Q. Have you seen that tank?
12:	A. Yes.
13:	Q. How is it deformed?
14:	A. The whole inner shell is how do I describe
15:	it what we would call imploded.
16:	Q. Have you ever seen that before?
17:	A. That was the that's the only one I've seen.
18:	Q. How extensive is the deformation?
19:	A. I don't know how to define. I mean, it's no
20:	longer usable. It's not repairable.

21:	Q. What do you think caused the deformation?
22:	A. That was that was the inner excuse me
23:	I mean, the hole in the inner, I'm presuming caused, you
24:	know, it was a leak to the vacuum space. And without
25:	understanding the true science of what goes on, it's

## (continued page 00110)

( COLLCELLACA	page correct
0110	
01:	either the cold temperature inside that drew the metal
02:	in or liquid got into that space and caused a slight
03:	pressure build, enough to push the inner out. I don't
04:	know enough about that to be 100 percent sure.
05:	Q. Are you aware of any other reasons it might
06:	have deformed?
07:	A. Those are the only two I can think of.
08:	Q. What model of tank was that?
09:	A. That I don't recall. It was an open top
10:	though.

iage outit
Defense Objections Dissimilar other occurrence from March 2020; MIL
No. 1; customer put a hole in the stainless steel:
05: Q. I see. Where is that tank now?
06: A. That should be scrapped now.
07: Q. Does that mean it's been destroyed?
08: A. Yes.
09: Q. Did Chart do any root cause analysis on that
10: tank?
11: A. Other than our visual inspection and we quickly
12: noticed the customer abuse to it, we weren't able to do
13: any further analysis on it.
Defense Counters Contingent on whether evidence of 2020 tank that was
hammered on is admitted:
14: Q. How did Chart determine that there had been
15: customer abuse?
16: A. By looking at the inner walls, it was very
17: obvious.
18: Q. Were there scuff marks on the inner vessel?

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19: A. Yes. Very, very deep scuff marks on two
20: opposing sides of the vessel and other markings that
21: appeared like a hammer. But that is pure assumption.

Defense Objections Dissimilar other occurrence from March 2020; MIL
No. 1; customer put a hole in the stainless steel:
22: Q. Was that tank returned to Chart?

A. Yes.
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Defense Counters Contingent on whether evidence of 2020 tank that was hammered on is admitted:

05: Q. Did Chart document its conclusions about that

06: tank?

A. I believe we did, yes.

#### Page 00114

Q. Excluding the subject tank in this litigation,

Plaintiffs Objections 106 - incomplete excerpt; 402/403 - relevance,
misleading, prejudicial, confusing:
05: are you aware of any instance where the weld failed

06: where the annular tube attaches to the inner vessel in a

07: Chart tank?

08: A. No.

#### Page 00115

Defense Objections See objections to Trial Exhibit 192; to the extent this includes post-remedial measures taken in December 2018, it is objectionable per FRE 407:
23: Q. Great. Thank you. Mr. Adams, do you recognize
24: this document?
25: A. It appears to be a risk analysis.

#### (continued page 00116)

0116	
01:	Q. What is a risk analysis?
02:	A. It's usually a collection of PFMEA, DFMEA.
03:	It's sort of documenting the construction, the use, and
04:	the risks associated assigning severity and occurrence.
05:	Q. And does this document apply to the MVE 808
06:	document or tank?

07:	A. I see that it's for the HECO, VARIO, and
08:	CRYOSYSTEMS FULL AUTO. So I don't know that it applies
09:	to the 808 specifically.
10:	Q. Is the 808 let me sorry. Allow me to
11:	rephrase that. So this applies to the MVE cryogenic
12:	freezers; correct?
13:	A. Yes.
14:	Q. And the MVE 808 is an MVE cryogenic freezer?
15:	A. It is, but all of these products are branded
16:	MVE.

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Plaintiffs Objections 402/403 - relevance, wastes time, confusing.

See Chart's Response to RFA Set 5 Nos. 15 and 16.:

Defense Counters Contingent on whether Trial Exhibit 192 is admitted; this testimony explains that this version of was created in December 2018, post-incident:

21: Q. And is there anything in the document that

22: would show you when this version was created?

23: A. I notice there is -- there's a Risk Activities

24: tab that has dates. Last one in red says December of --

25: it looks like December 14th, 2018.
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#### (continued page 00118)

(COLICILIACA	page ourse,
0118	
01:	Q. And so your interpretation is that that would
02:	be the last edit date for this?
03:	A. Based on this file, yes.
04:	Q. And is there anything in the document that
05:	indicates to you what edits were made on December 14th
06:	of 2018?
07:	A. It just says "Cassie Bartz (Regulatory)."

Plaintiffs	objections 402/403 - relevance, wastes time:
16:	Q. Are the weld are the current welding
17:	parameter documents intended to be posted in the
18:	production area?

# $Adams, Seth \ \ ^{\text{Case 3:18-cv-01586-JSC}}_{\text{Volume 1}} \ \ ^{\text{Document 814-1}}_{\text{1}} \ \ ^{\text{Filed 05/23/21}}_{\text{2020}} \ \ ^{\text{Page 62 of 62}}_{\text{1}}$

19:	A. We no longer keep those posted because we have
20:	MasterControl available on PCs. So the supervisors are
21:	able to go and print out a copy and you see the print
22:	and date stamp.
23:	Q. At some point were they physically posted in
24:	the production area?
25:	A. Yes.